

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	6	liquid phase microextraction	US-PGPUB; USPAT	ADJ	ON	2007/05/01 12:28
S2	1	"20040171169"	US-PGPUB; USPAT	ADJ	ON	2007/05/01 16:44
S3	1	"5169634".pn.	US-PGPUB; USPAT	ADJ	ON	2007/10/22 10:31
S4	2	pedersen-bjergaard stig.in.	US-PGPUB; USPAT	ADJ	ON	2007/05/17 07:25
S5	29	liquid NEAR5 microextraction	US-PGPUB; USPAT	ADJ	ON	2007/05/01 14:02
S6	11	S5 AND membrane	US-PGPUB; USPAT	ADJ	ON	2007/05/01 14:03
S7	48	liquid NEAR10 microextraction	US-PGPUB; USPAT	ADJ	ON	2007/05/01 14:10
S8	22	S7 AND membrane	US-PGPUB; USPAT	ADJ	ON	2007/05/01 14:03
S9	347	liquid AND microextraction	US-PGPUB; USPAT	ADJ	ON	2007/05/01 14:10
S10	159	S9 AND membrane	US-PGPUB; USPAT	ADJ	ON	2007/05/01 14:10
S11	11	S10 AND (fatty acid ester OR vegetable oil OR silicone oil OR nitroarylalkylether)	US-PGPUB; USPAT	ADJ	ON	2007/05/01 14:24
S12	1	"4844067".pn.	US-PGPUB; USPAT	ADJ	ON	2007/05/01 14:24
S13	248	liquid phase microextraction OR liquid phase extraction	US-PGPUB; USPAT	ADJ	ON	2007/05/01 14:59
S14	84	S13 AND membrane	US-PGPUB; USPAT	ADJ	ON	2007/05/01 14:59
S15	36	S14 AND oil	US-PGPUB; USPAT	ADJ	ON	2007/05/01 14:59
S16	4	S14 AND soya oil	US-PGPUB; USPAT	ADJ	ON	2007/05/01 15:00
S17	561	membrane AND soya oil	US-PGPUB; USPAT	ADJ	ON	2007/05/01 15:00
S18	13	membrane SAME soya oil	US-PGPUB; USPAT	ADJ	ON	2007/05/01 15:03
S19	271	membrane SAME (soya oil OR olive oil OR tea tree oil)	US-PGPUB; USPAT	ADJ	ON	2007/05/01 15:37
S20	1	membrane SAME nitroarylalkylether	US-PGPUB; USPAT	ADJ	ON	2007/05/01 15:38
S21	0	membrane SAME nitroarylalkyl ADJ ether	US-PGPUB; USPAT	ADJ	ON	2007/05/01 15:38

S22	737	membrane SAME nitro AND ether	US-PGPUB; USPAT	ADJ	ON	2007/05/01 15:39
S23	19	membrane SAME (nitro NEAR5 ether)	US-PGPUB; USPAT	ADJ	ON	2007/05/01 15:40
S24	1	"20020040154"	US-PGPUB; USPAT	ADJ	ON	2007/05/01 15:40
S25	1	"3612283".pn.	US-PGPUB; USPAT	ADJ	ON	2007/05/01 16:30
S26	10	acceptor solution AND membrane AND analyte	US-PGPUB; USPAT	ADJ	ON	2007/05/01 16:47
S27	1	"4837157".pn.	US-PGPUB; USPAT	ADJ	ON	2007/05/01 17:07
S28	184	vegetable oil WITH membrane	US-PGPUB; USPAT	ADJ	ON	2007/05/01 17:08
S29	21	S28 AND hollow fiber	US-PGPUB; USPAT	ADJ	ON	2007/05/01 17:43
S30	185	porous polymeric substrate	US-PGPUB; USPAT	ADJ	ON	2007/05/01 17:21
S31	27	S30 AND (fatty acid ester OR vegetable oil OR silicone oil OR nitro arylalkylether)	US-PGPUB; USPAT	ADJ	ON	2007/05/01 17:24
S32	22	S31 AND membrane	US-PGPUB; USPAT	ADJ	ON	2007/05/01 17:24
S33	17	porous polymeric substrate AND (fatty acid ester OR vegetable oil OR silicone oil OR nitroarylalkylether) AND membrane AND hollow fiber	US-PGPUB; USPAT	ADJ	ON	2007/05/01 17:45
S34	1	porous polymeric substrate SAME (fatty acid ester OR vegetable oil OR silicone oil OR nitroarylalkylether) AND membrane AND hollow fiber	US-PGPUB; USPAT	ADJ	ON	2007/05/01 17:46
S35	6	porous polymeric substrate SAME (fatty acid ester OR vegetable oil OR silicone oil OR nitroarylalkylether)	US-PGPUB; USPAT	ADJ	ON	2007/05/01 17:50
S36	27	porous polymeric substrate AND (fatty acid ester OR vegetable oil OR silicone oil OR nitroarylalkylether)	US-PGPUB; USPAT	ADJ	ON	2007/05/01 17:53
S37	0	S27 AND hollow fiber	US-PGPUB; USPAT	ADJ	ON	2007/05/01 17:51
S38	52	porous polymeric substrate SAME hollow fiber SAME membrane	US-PGPUB; USPAT	ADJ	ON	2007/05/01 17:53
S39	17	S38 AND (fatty acid ester OR vegetable oil OR silicone oil OR nitroarylalkylether)	US-PGPUB; USPAT	ADJ	ON	2007/05/01 18:00
S40	8	surface modified porous membrane and process	US-PGPUB; USPAT	ADJ	ON	2007/05/02 09:15

S41	8	surface modified porous membrane and process	US-PGPUB; USPAT	ADJ	ON	2007/05/02 09:15
S42	7	S41 AND hollow fiber	US-PGPUB; USPAT	ADJ	ON	2007/05/02 09:19
S43	687	membrane AND hollow fiber AND acceptor	US-PGPUB; USPAT	ADJ	ON	2007/05/02 09:20
S44	74	porous polymeric substrate AND hollow fiber AND membrane	US-PGPUB; USPAT	ADJ	ON	2007/05/02 09:24
S45	12	S44 AND acceptor	US-PGPUB; USPAT	ADJ	ON	2007/05/02 09:21
S46	1	porous polymeric substrate AND (hollow fiber WITH acceptor) AND membrane	US-PGPUB; USPAT	ADJ	ON	2007/05/02 09:24
S47	8	(hollow fiber WITH acceptor) AND membrane	US-PGPUB; USPAT	ADJ	ON	2007/05/02 09:35
S48	17	(hollow fiber SAME acceptor) AND membrane	US-PGPUB; USPAT	ADJ	ON	2007/05/02 09:52
S49	1	"5418006".pn.	US-PGPUB; USPAT	ADJ	ON	2007/05/02 09:58
S50	12	porous polymeric substrate AND fatty acid ester AND membrane	US-PGPUB; USPAT	ADJ	ON	2007/05/02 09:59
S51	0	"4199765..pn"	US-PGPUB; USPAT	ADJ	ON	2007/05/07 16:41
S52	1	"4199765".pn.	US-PGPUB; USPAT	ADJ	ON	2007/05/07 16:41
S53	1	"7148060".pn.	US-PGPUB; USPAT	ADJ	ON	2007/05/07 16:41
S54	1	"4859535".pn.	US-PGPUB; USPAT	ADJ	ON	2007/05/07 16:41
S55	1	"4394372".pn.	US-PGPUB; USPAT	ADJ	ON	2007/05/07 16:42
S56	1	"5914038".pn.	US-PGPUB; USPAT	ADJ	ON	2007/05/07 16:42
S57	1	"6112908".pn.	US-PGPUB; USPAT	ADJ	ON	2007/05/07 16:47
S58	3181	analyte AND membrane AND acceptor	US-PGPUB; USPAT	ADJ	ON	2007/05/07 16:47
S59	40	S58 AND stir AND hollow fiber	US-PGPUB; USPAT	ADJ	ON	2007/05/07 16:48
S60	4	S59 AND polyolefin	US-PGPUB; USPAT	ADJ	ON	2007/05/07 16:50
S61	1	"20040171169".pn.	US-PGPUB; USPAT	ADJ	ON	2007/05/07 16:51
S62	4	micro ADJ extraction AND membrane AND carrier NEAR3 layer	US-PGPUB; USPAT	ADJ	ON	2007/05/08 08:06

S63	4	micro NEAR2 extraction AND membrane AND carrier NEAR3 layer	US-PGPUB; USPAT	ADJ	ON	2007/05/08 08:06
S64	82	micro NEAR2 extraction AND membrane AND carrier	US-PGPUB; USPAT	ADJ	ON	2007/05/08 08:10
S65	2	micro NEAR2 extraction AND membrane AND carrier AND TOPO	US-PGPUB; USPAT	ADJ	ON	2007/05/08 08:18
S66	1	"6354443".pn.	US-PGPUB; USPAT	ADJ	ON	2007/05/08 10:15
S67	40	analyte AND membrane AND acceptor AND stir AND hollow fiber	US-PGPUB; USPAT	ADJ	ON	2007/05/08 10:19
S68	0	"schafer.in" AND "5861097".pn.	US-PGPUB; USPAT	ADJ	ON	2007/05/08 10:19
S69	1	"5861097".pn.	US-PGPUB; USPAT	ADJ	ON	2007/05/08 10:19
S70	34	hollow fiber and microextraction	US-PGPUB; USPAT	ADJ	ON	2007/05/17 07:48
S71	2	hollow fiber and membrane and (soya oil or tree tea oil)	US-PGPUB; USPAT	ADJ	ON	2007/05/17 07:49
S72	309	membrane and (soya oil or tree tea oil) and (coating or film)	US-PGPUB; USPAT	ADJ	ON	2007/05/17 07:49
S73	47	membrane and (soya oil or tree tea oil) same(coating or film)	US-PGPUB; USPAT	ADJ	ON	2007/05/17 12:10
S74	1	("20040116829").PN.	US-PGPUB; USPAT	OR	OFF	2007/05/17 12:10
S75	7	((("5229004") or ("5252220") or ("5512180") or ("5603953") or ("9868935") or ("6096217") or ("6162360") or ("6171563")).PN.	US-PGPUB; USPAT	OR	OFF	2007/09/26 16:16
S76	1	("5650323").PN.	US-PGPUB; USPAT	OR	OFF	2007/09/26 16:13
S77	13	manns.in. and hollow fiber	US-PGPUB; USPAT	ADJ	ON	2007/09/26 17:24
S78	150	liquid membrane with (fatty acid ester or vegetable oil or silicone oil or mixture)	US-PGPUB; USPAT	ADJ	ON	2007/09/26 17:28
S79	67	S78 and hollow adj fiber	US-PGPUB; USPAT	ADJ	ON	2007/09/26 17:24
S80	61	S79 and @py<="2004" and @ay<="2004"	US-PGPUB; USPAT	ADJ	ON	2007/09/26 17:25
S81	11	liquid membrane with (fatty acid ester or vegetable oil or silicone oil)	US-PGPUB; USPAT	ADJ	ON	2007/09/26 17:28
S82	6	("2358320"   "3993746"   "4390260"   "4413014"   "4861586").PN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/09/27 12:38

S83	1	("5507949").PN.	US-PGPUB; USPAT	OR	OFF	2007/10/11 09:12
S84	91036	"210".clas.	US-PGPUB; USPAT	ADJ	ON	2007/10/11 09:12
S85	3303	S84 and liquid near3 membrane	US-PGPUB; USPAT	ADJ	ON	2007/10/11 09:12
S86	40	S85 and fatty acid ester	US-PGPUB; USPAT	ADJ	ON	2007/10/11 09:12
S87	32	S86 and @py<="2004" and @ay<="2004"	US-PGPUB; USPAT	ADJ	ON	2007/10/11 10:01
S88	25	S85 and (olive or tree or soya) near3 oil	US-PGPUB; USPAT	ADJ	ON	2007/10/11 10:01
S89	22	S88 and @py<="2004" and @ay<="2004"	US-PGPUB; USPAT	ADJ	ON	2007/10/11 10:03
S90	0	S89 and (liquid same phase same microextraction)	US-PGPUB; USPAT	ADJ	ON	2007/10/11 10:04
S91	0	S89 and (liquid same microextraction)	US-PGPUB; USPAT	ADJ	ON	2007/10/11 10:04
S92	10	S89 and (extraction)	US-PGPUB; USPAT	ADJ	ON	2007/10/11 10:04
S93	15919	(liquid near3 membrane)	US-PGPUB; USPAT	ADJ	ON	2007/10/11 10:04
S94	37	S93 and membrane same oil same (olive or teatree or soya)	US-PGPUB; USPAT	ADJ	ON	2007/10/11 10:05
S95	6	S94 and extraction	US-PGPUB; USPAT	ADJ	ON	2007/10/11 10:16
S96	1	("4276179").PN.	US-PGPUB; USPAT	OR	OFF	2007/10/11 10:40
S97	0	S96 and ionophore	US-PGPUB; USPAT	ADJ	ON	2007/10/11 10:40
S98	32	ionophore	US-PGPUB; USPAT	ADJ	ON	2007/10/11 10:41
S99	0	S98 and liquid membrane	US-PGPUB; USPAT	ADJ	ON	2007/10/11 10:41
S100	6	S98 and fiber	US-PGPUB; USPAT	ADJ	ON	2007/10/11 11:43
S101	6	((("4666543") or ("5282964") or ("5474902") or ("5846427") or ("5202023") or ("5252220"))).PN.	US-PGPUB; USPAT	OR	OFF	2007/10/11 11:43
S102	0	S101 and perservative	US-PGPUB; USPAT	ADJ	ON	2007/10/11 11:44
S103	15687	hollow fiber	US-PGPUB; USPAT	ADJ	ON	2007/10/11 11:44
S104	38	S103 and microextraction	US-PGPUB; USPAT	ADJ	ON	2007/10/11 11:44
S105	0	S104 and perservative	US-PGPUB; USPAT	ADJ	ON	2007/10/11 11:44

S106	15	S104 and housing	US-PGPUB; USPAT	ADJ	ON	2007/10/11 11:46
S107	2099	liquid adj membrane	US-PGPUB; USPAT	ADJ	ON	2007/10/11 11:46
S108	1	S107 same preservative	US-PGPUB; USPAT	ADJ	ON	2007/10/11 11:48
S109	110	S107 and preservative	US-PGPUB; USPAT	ADJ	ON	2007/10/11 11:48
S110	1	S109 and microextraction	US-PGPUB; USPAT	ADJ	ON	2007/10/11 11:51
S111	2099	liquid adj membrane	US-PGPUB; USPAT	ADJ	ON	2007/10/11 11:51
S112	488	S111 and hollow fiber	US-PGPUB; USPAT	ADJ	ON	2007/10/11 11:51
S113	130	S112 and (store or stored)	US-PGPUB; USPAT	ADJ	ON	2007/10/11 11:51
S114	70	S113 and days	US-PGPUB; USPAT	ADJ	ON	2007/10/11 11:51
S115	59	S114 and @py<="2004" and @ay<="2004"	US-PGPUB; USPAT	ADJ	ON	2007/10/11 11:52
S116	7	S115 and ((store or stored) same days)	US-PGPUB; USPAT	ADJ	ON	2007/10/11 12:01
S117	965	hollow adj fiber and ((store or stored) same days)	US-PGPUB; USPAT	ADJ	ON	2007/10/11 12:02
S118	52	S117 and analyte and extract	US-PGPUB; USPAT	ADJ	ON	2007/10/11 12:02
S119	26	S118 and @py<="2004" and @ay<="2004"	US-PGPUB; USPAT	ADJ	ON	2007/10/11 12:06
S120	15687	hollow adj fiber	US-PGPUB; USPAT	ADJ	ON	2007/10/11 12:06
S121	149	S120 same liquid adj membrane	US-PGPUB; USPAT	ADJ	ON	2007/10/11 12:06
S122	34	S121 and (housing or closed near3 (container or compartment))	US-PGPUB; USPAT	ADJ	ON	2007/10/11 12:07
S123	24	S122 and @py<="2004" and @ay<="2004"	US-PGPUB; USPAT	ADJ	ON	2007/10/11 12:26
S124	1	liquid adj membrane same preservative	US-PGPUB; USPAT	ADJ	ON	2007/10/11 12:29
S125	1	("0514686").PN.	US-PGPUB; USPAT	OR	OFF	2007/10/11 12:29
S126	1	("6291249").PN.	US-PGPUB; USPAT	OR	OFF	2007/10/11 12:30
S127	1	("5507949").PN.	US-PGPUB; USPAT	OR	OFF	2007/10/22 10:32
S128	1	S127 and hollow	US-PGPUB; USPAT	ADJ	ON	2007/10/22 10:32

S129	1	S127 and hollow fiber	US-PGPUB; USPAT	ADJ	ON	2007/10/22 10:32
S130	17	liquid membrane same (fatty acid ester or vegetable oil)	US-PGPUB; USPAT	ADJ	ON	2008/05/26 14:27
S131	5	(tributyrin or dodecyl acetate or dodecyl butyrate or myristyl acetate) same membrane and extraction	US-PGPUB; USPAT	ADJ	ON	2008/05/26 15:45
S132	1	("5637224").PN.	US-PGPUB; USPAT	OR	OFF	2008/05/26 15:54
S133	1	("4309448").PN.	US-PGPUB; USPAT	OR	OFF	2008/05/26 18:17
S134	891	(tributyrin or dodecyl acetate or dodecyl butyrate or myristyl acetate) and membrane	US-PGPUB; USPAT	ADJ	ON	2008/05/27 08:02
S135	6	(tributyrin or dodecyl acetate or dodecyl butyrate or myristyl acetate) with membrane	US-PGPUB; USPAT	ADJ	ON	2008/05/27 08:02
S136	916	(acetate or propionate or butyrate) with ester with membrane	US-PGPUB; USPAT	ADJ	ON	2008/05/27 08:06
S137	0	(acetate or propionate or butyrate) with ester with liquid membrane	US-PGPUB; USPAT	ADJ	ON	2008/05/27 08:06
S138	6	(acetate or propionate or butyrate) with ester with liquid near3 membrane	US-PGPUB; USPAT	ADJ	ON	2008/05/27 08:06
S139	6	(acetate or propionate or butyrate) with ester same liquid membrane	US-PGPUB; USPAT	ADJ	ON	2008/05/27 08:08
S140	866	(acetate or propionate or butyrate) and liquid membrane	US-PGPUB; USPAT	ADJ	ON	2008/05/27 08:24
S141	49	(acetate or propionate or butyrate) same liquid membrane	US-PGPUB; USPAT	ADJ	ON	2008/05/27 08:24
S142	1	(tributyrin or dodecyl acetate or dodecyl butyrate or myristyl acetate) same liquid membrane	US-PGPUB; USPAT	ADJ	ON	2008/05/27 08:24
S143	16790	hollow fiber	US-PGPUB; USPAT	ADJ	ON	2008/08/04 10:34
S144	40	S143 and microextraction	US-PGPUB; USPAT	ADJ	ON	2008/08/04 10:34
S145	8	S144 and preservative	US-PGPUB; USPAT	ADJ	ON	2008/08/04 10:34
S146	4	S145 and @py<="2004" and @ay<="2004"	US-PGPUB; USPAT	ADJ	ON	2008/08/04 10:35
S147	5215	hollow fiber and (silicone or silicon)	US-PGPUB; USPAT	ADJ	ON	2008/08/04 10:36
S148	2068	S147 and oil	US-PGPUB; USPAT	ADJ	ON	2008/08/04 10:36

S149	767	S148 and extraction	US-PGPUB; USPAT	ADJ	ON	2008/08/04 10:36
S150	443	S149 and @py<="2004" and @ay<="2004"	US-PGPUB; USPAT	ADJ	ON	2008/08/04 10:36
S151	122	S150 and micro	US-PGPUB; USPAT	ADJ	ON	2008/08/04 10:36
S152	5	S151 and ("422".clas. or "436". clas.)	US-PGPUB; USPAT	ADJ	ON	2008/08/04 10:36
S153	1757	hollow fiber and extraction	US-PGPUB	ADJ	ON	2008/08/04 10:37
S154	1	(microextraction and fatty acid ester and liquid and membrane and analyte).clm.	US-PGPUB	ADJ	ON	2008/08/04 10:37
S155	16	(microextraction and hollow fiber and substrate)	US-PGPUB	ADJ	ON	2008/08/04 10:38
S156	1	(microextraction and hollow fiber and substrate).clm.	US-PGPUB	ADJ	ON	2008/08/04 10:38
S157	1	(microextraction and fatty acid ester and carbon and atom).clm.	US-PGPUB	ADJ	ON	2008/08/04 10:38
S158	0	(vegetable oil and soya and olive and tea tree).clm.	US-PGPUB	ADJ	ON	2008/08/04 10:39
S159	1	(vegetable oil and soya and olive and tea tree).clm.	US-PGPUB	ADJ	ON	2008/08/04 10:39
S160	1	(liquid membrane and carrier and microextraction).clm.	US-PGPUB	ADJ	ON	2008/08/04 10:39
S161	1	(carrier and organic ion and ionophore and pore and agent). clm.	US-PGPUB	ADJ	ON	2008/08/04 10:39
S162	0	(organic ion and TOPO and phosphoric acid and triethylhexyl and amberlite and arsonium). clm.	US-PGPUB	ADJ	ON	2008/08/04 10:40
S163	15	(polymeric substrate and polyolefin and acrylic and polyamide and polyester).clm.	US-PGPUB	ADJ	ON	2008/08/04 10:41
S164	1	(polymeric substrate and polyolefin and acrylic and polyamide and polyester and polycarbonate and polystyrene and fluorinated and polyvinyl). clm.	US-PGPUB	ADJ	ON	2008/08/04 10:41
S165	94	(polyolefin and polyethylene and polypropylene and polytetrafluoroethylene and copolymers and chloride).clm.	US-PGPUB	ADJ	ON	2008/08/04 10:42
S166	1	(polyolefin and polyethylene and polypropylene and polytetrafluoroethylene and copolymers and chloride and polyethylene-polyvinyl).clm.	US-PGPUB	ADJ	ON	2008/08/04 10:42



S167	1	(liquid membrane and "30" and "60" and "90" and days).clm.	US-PGPUB	ADJ	ON	2008/08/04 10:42
S168	1	(acceptor and solution and hollow fiber and sample solution).clm.	US-PGPUB	ADJ	ON	2008/08/04 10:43
S169	1	(acceptor solution and sampled and autosampler).clm.	US-PGPUB	ADJ	ON	2008/08/04 10:43
S170	1	(liquid and phase and microextraction and hollow fiber and fatty acid ester and carbon and polymeric substrate).clm.	US-PGPUB	ADJ	ON	2008/08/04 10:44
S171	1	(polymeric substrate and polyolefin and acrylic copolymer and polyester and polycarbonate and polystyrene and fluorinated and polyvinyl chloride).clm.	US-PGPUB	ADJ	ON	2008/08/04 10:45
S172	1	(liquid membrane and nitroarylalkylether).clm.	US-PGPUB	ADJ	ON	2008/08/04 10:45
S173	0	(liquid and phase and microextraction and preservative and analyte and polymeric substrate and acceptor ).clm.	US-PGPUB	ADJ	ON	2008/08/04 10:46
S174	0	(liquid and phase and microextraction and preservative and analyte).clm.	US-PGPUB	ADJ	ON	2008/08/04 10:46
S175	1	(liquid and phase and microextraction and mixture and silicone oil and fatty acid ester and vegetable oil and nitroarylalkylether).clm.	US-PGPUB	ADJ	ON	2008/08/04 10:47

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